carried out under the direction of Professor Schmiedeberg. Microscopic examination of the tissues of rabbits killed by lethal doses of this salt shows the deposition of metallic gold in and immediately about the nuclei of the cells of the kidney, liver, spleen, mucosa of the gastrointestinal tract, and cardiac muscle. By chemical analysis it was found that the greatest amounts of gold were deposited in the kidney and liver, only traces having been recovered from the other organs.

On account of the ease of reduction of this salt, and the possibility of accurately estimating the metallic gold, it was recommended as an indicator of the *quantitative* relationships of the reducing processes in the various organs.

19. "Effect of ligation upon the vital staining of nerves," with demonstration: **S. J. MELTZER.**

The author demonstrated pieces of dried sciatic nerves of rabbits which, *intra vitam*, received intravenous infusions of methylene-blue. Single ligatures of the nerve, no matter where applied, are without any influence upon the color of the nerve on either side of the ligature. When the nerve is ligated at two places the section between the two ligatures remains free of color, while the central and peripheral ends of the nerve turn blue in the usual manner. The effect is the same even if the ligatures are applied near either end of the nerve. This fact shows that, in the vital staining, the methylene-blue reaches the nerve only from its central and peripheral ends.

20. "Effects of bloodletting on metabolism": PHILIP B. HAWK and **WILLIAM J. GIES.**

The author reported the results of some experiments recently conducted by him in collaboration with Dr. Hawk. The experiments were carried out on dogs in a state of nitrogenous equilibrium. The withdrawals of blood were made while the animals were under the influence of ether-chloroform. The metabolic effects of anæsthesia and of operation were carefully controlled.

It was found that hemorrhages of about 3 % of body weight caused, among other effects, (1) diminished secretion and decreased specific gravity, of the urine at first, the reverse in